

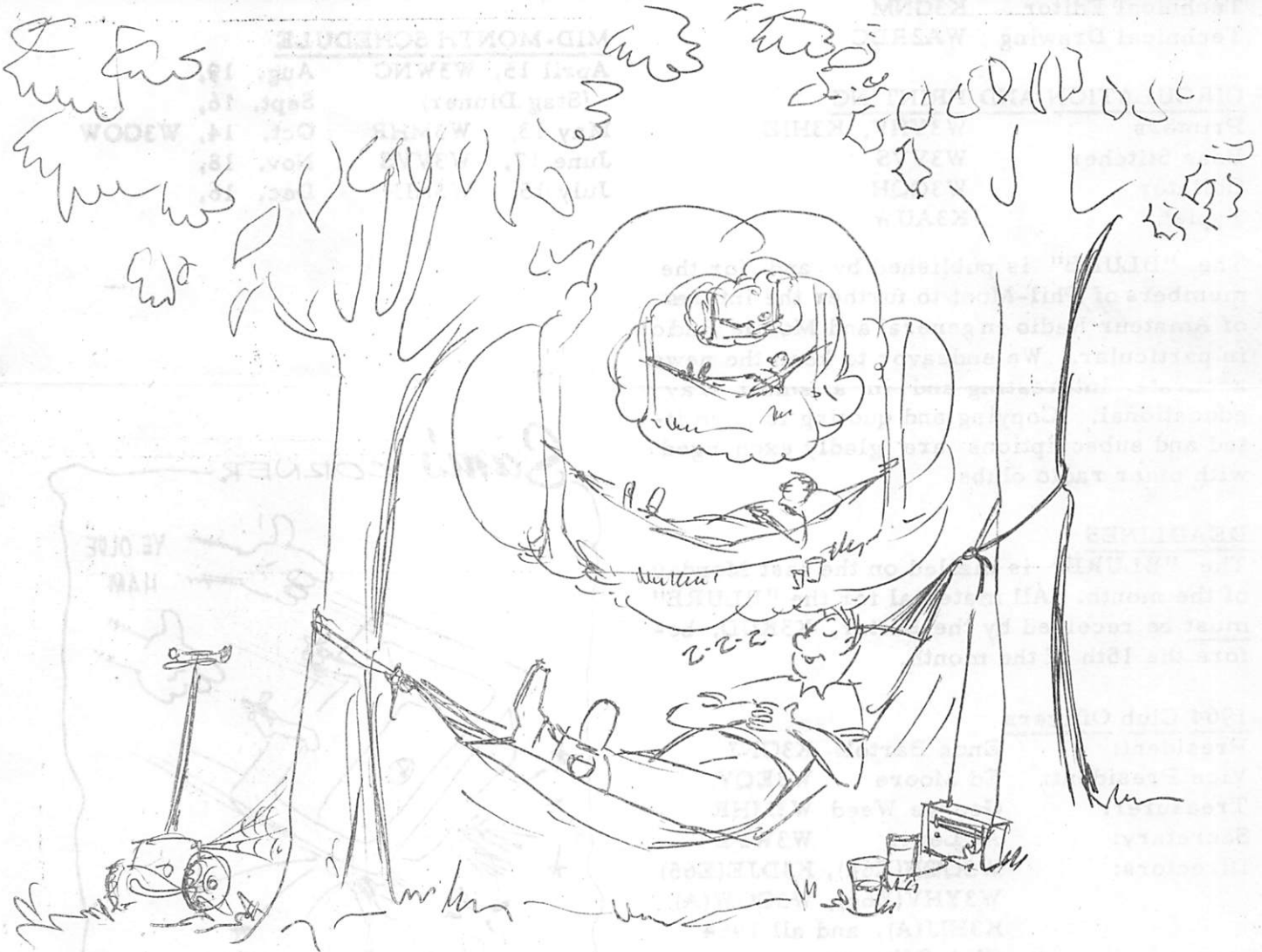


15<sup>TH</sup> Anniversary YEAR

# THE BLURB

AREA MEMBER

**PHILMONT MOBILE RADIO CLUB INC.**



*In The Spring all Philmonter's Thoughts  
Turn to what they have planned all winter!*

Published Monthly by the  
Phil-Mont Mobile Radio Club

Charter Member: AREA

VOLUME 14

NUMBER 5

### EDITOR

R. G. Schmilewske, K3KUD  
528 Melody Lane  
Glenside, Pa. Telephone TU4-0190

### STAFF

Publisher W3LEM  
Art Work 3QO167  
Technical Editor K3GNM  
Technical Drawing WA2RDC

### CIRCULATION AND PRINTING

Printers W3YHV, K3HIE  
Boss Stitcher W3VVS  
Collator W3QQH  
Typist K3AUW

The "BLURB" is published by and for the members of Phil-Mont to further the interest of Amateur Radio in general and Mobile Radio in particular. We endeavor to keep the news accurate, interesting and in a small way educational. Copying and quoting is permitted and subscriptions are gladly exchanged with other radio clubs.

### DEADLINES

The "BLURB" is mailed on the last Monday of the month. All material for the "BLURB" must be received by the Editor, K3KUD, before the 15th of the month.

### 1964 Club Officers

President: Enos Bartol K3GNJ  
Vice President: Ed Moore W3EQV  
Treasurer: George Weed W3MHR  
Secretary: Al Lewis W3WPD  
Directors: W3QQH(E64), K3DJE(E65)  
W3YHV(E66), W3GOW(A)  
K3HIJ(A), and all 1964  
Club Officers

### NET AND NET FREQUENCIES

Channel 1 - 29.493 mc Channel 3 - 147.78 mc  
Channel 2 - 29.629 mc Channel 4 - 50.7 mc  
Orange Juice Net Weekdays 0700 - 0730  
Scrambled Egg Net 0730 - 0830  
Ten-on-Ten Sundays 1000 - 1100  
Blarney sessions anytime All Channels  
29.493 kc 0930 - 2400  
Monitored daily for the benefit of mobiles in the Philadelphia area.

## PMRC CALENDAR

### MEETINGS

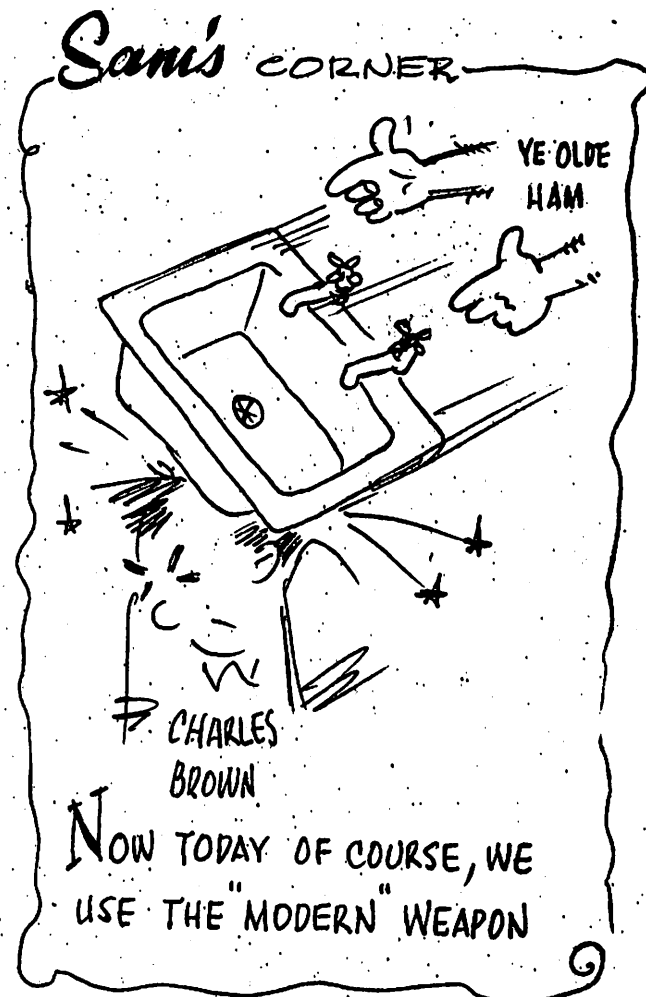
Regular Meetings: First Monday of  
each month

Time: 2000 hours (8:00 p.m.)

Place: THE FRANKLIN INSTITUTE  
20 & Benjamin Franklin Parkway

### MID-MONTH SCHEDULE

April 15, W3WNC	Aug. 19,
(Stag Dinner)	Sept. 16,
May 13, W3MHR	Oct. 14, W3GOW
June 17, W3VVS	Nov. 18,
July 15, W3NIP	Dec. 16,



## THE PREZ SEZ

Fifteen years ago an energetic group of fellows with the proper fore-sight started Phil-Mont. This group, armed with an abundance of radio experience and energy, coupled with the proper frame of mind, developed a successful mobile radio club.

A large number of those members are still in there, hard at work for the club, and they are to be commended; but these members are not doing the job alone. In the last few years a "second wave" of members has invaded Phil-Mont and these men are now cheerfully carrying a large portion of the work-load necessary to keep our club in operation. You can recognize the members of this "second wave" because a large number of them have "K" calls.

Now, that leaves us with one other group, a minority, for which we can be thankful. This group were members from the beginning, or shortly after the club was founded and they also contributed to the success of Phil-Mont, but for one reason or another, they have run out of gas. At the present time all they seem to be doing is complaining and adding nothing whatsoever to the club.

This article may be a personal dig to some of you in that group, and I assure you that this is my intention. I know of nothing in the world the operation of which depends on complaints alone.

If, after reading this article, you find yourself in the last group, try again to help your club by doing something instead of talking. We will all be better off.

de K3GNJ

\* \* \* \* \*

## IT SEEMS TO ME

One day recently, while contemplating our name, "The Phil-Mont Mobile Radio Club", I decided to look up the dictionary definition of a CLUB.

1. "An association of persons who meet under certain self-imposed regulations, for the promotion of some common object"  
( We certainly meet that definition.)
2. "To unite for the accomplishment of a common end."  
( We usually meet that one also.)
3. "To join, as a number of individuals to the same end; to contribute separate powers to one end, purpose or effect."  
( We don't all quite make it every time on this one.)
4. "To be driven along by a current, with an anchor out."  
( Well, we do have our dragging anchors!)
5. "To throw, or permit to fall, into disorder; said in reference to a company of soldiers."  
( Careful attention to 1 and 2 will avert our meeting this definition.)

I feel that further comment is unnecessary.

de K3KUD

## NEWS AND ACTIVITIES

Phil-Mont Calender for May:

Monday, May 4 - 8:00 PM. Regular meeting at the Franklin Institute  
Wednesday, May 15 - 8:00 PM. Mid-month meeting at W3MHR, Wyncote, Pa.  
Monday, May 25 - 7:30 PM. BLURB folding at W3LEM.

\* \* \* \* \*

Work on the communication trailer is underway. Jim Spencer, W3QQH, has sketched out the arrangement and in addition has started the preliminary interior work on the trailer itself. Present goal is to have the trailer fully operational for Field Day.

\* \* \* \* \*

April BLURB folding (March 30) produced one of the largest groups yet. W3YHV, MHR, LEM, QQH, IWO, and K3's GNM, CEE, DJE, KUD and one DX helper WA2RDC, all arrived in time to fold, staple, stamp or pack for mailing. Everyone seemed to have a good time and we all got home early.

\* \* \* \* \*

Don't forget the 15th Anniversary Dinner-Dance to be held on October 24, 1964, at the William Penn Inn, Gwynedd, Pa. Phil-Mont cordially invites individuals and groups from our neighboring clubs to join us in an evening of fun and fellowship. Tickets are available now! Cost is \$15.00 per couple and reservations can be made by contacting Jim Spencer, W3QQH.

\* \* \* \* \*

The regular meeting for May will feature the first of a series of "Distributor Nights". These meetings will have a threefold purpose. (1) To introduce the distributors to the members of the club, (2) to make available to the members of the club information on new ham gear and (3) to provide highly qualified speakers on technical subjects. The May 4 meeting is sponsored by Ham Beurger and B & W. The speaker of the evening will be Jack Brown of B and W who will discuss the generation and detection of SSB signals.

In addition to the main program there will be two short talks. One by K3HIJ on the remote control of the Institute station and another speaker to be announced.

\* \* \* \* \*

Congratulations to Joe, K3HIJ and his wife Miriam, K3UJI, on the birth of a son on April 10, 1964.

Congratulations also to Jack Mahoney, W3DJW, on his marriage, which took place on April 14.

\* \* \* \* \*

\$25.00 REWARD for information leading to the arrest and conviction of the person who smashed the window of a 1960 Chevrolet Station Wagon and stole therefrom a Johnson Messenger. The Messenger was tuned for CB and contained a CH 5 receive xtal and transmit xtals for CH 3, 5, 7 and 10. Case was painted dark green. Theft occurred on April 3, between the hours of 8:00 and 10:00 PM while the car was parked at Colonial Savings Bank, Eagle Road and Westchester Pike, Havertown, Pa. Contact Jim Hartmann, W3JYA, phone HI-6-2379.

\* \* \* \* \*

## NEWS AND ACTIVITIES (continued)

The Annual Stag Dinner was held at the Alpine Inn on April 15, preceding the mid-month meeting. Fourteen members met for a most enjoyable meal. Those present were W3's GIF; NIP; EQV; LDQ; MHR;; OEC; QQH; DSG; ZPP; CDY; and K3's HWX; HIE; KUD; OEJ. After dinner the group adjourned to the home of HY Hecht, W3WNC, where the mid-month business meeting took place.

\*\*\*\*\*

The first appointments to the Field Day Committee have been announced. Those presently listed are Jim Spencer, W3QQH; Ed Moore, W3EQV; Enie Bartol, K3GNJ and Bob Schmilewske, K3KUD. Bill Bubeck, W3YHV, is of course, the chairman. Additional members will be asked to serve on the committee as plans progress.

\*\*\*\*\*

Don't forget that Phil-Mont offers a certificate to members and non-members alike, for working Phil-Mont stations. Requirements are: for non-members, work thirty-five (35) Phil-Mont stations and for members, work fifty (50) stations. Submit list of stations worked to Paul Bohlander, W3VVS, Chairman of the Awards Committee and a certificate will be issued.

\*\*\*\*\*

Should we examine our membership Policy?

The recent discussions on new membership in Phil-Mont leave me with the same opinion as before.

Much could be said or written about the subject. Little of all this would prove to be beneficial in any conclusion. There are however several angles that are worth our consideration.

We have had comments made regarding the acceptance of any and all applicants, as long as they pay the required dues. Let's kick this around some for a few angles. Generally speaking, this would not be practiced even by the proponents of the statement.

Let's look at the value of a membership from the applicant's point of view. A prospective member can place little value on a membership if all you need is the yearly dues. If we "raise the dues", as has also been proposed, we will certainly establish the fact that our members have attained a certain financial status, (I trust honestly, hi)). An applicant must have a keen desire to be part of things as we in Phil-Mont conduct our yearly activities. Why else would he desire membership? He knows that now his application will under-go the scrutiny of the interested membership. Would he be satisfied to apply and know that acceptance is automatic or a foregone conclusion? No, he deserves the prompt and careful consideration of the Club. He has made his application to join in our association and we likewise want to see and know who it is that has made such a choice. The Constitution clearly spells out the new membership procedure. If we follow this carefully, what is there that needs examination? It has been our failure to follow the Constitution, that in my mind needs examination. We do not need changes or additions to the Constitution or even deletions. In short and simple terms, let's simply examine ourselves in the administration of the Constitution.

de W3CDY

\*\*\*\*\*

Any more thoughts or comments on this subject? (ED)

\*\*\*\*\*

## NEWS AND ACTIVITIES (continued)

The regular meeting for April was held at the Franklin Institute on April 6. The main program featured a talk by Fred Shaw, W3ADV in which Fred discussed the problems encountered by the Bell Telephone Company during the installation of a microwave link between the cities of Dover and Wilmington, Delaware. A short presentation was also made by Hy Hecht, W3WNC; Fred Kramer, W3DJV; and Russ Miller, K3NYN, who discussed and displayed a new antenna mount for multi-band operation which they jointly developed. The meeting was under the able guidance of Al Hamilton, W3GIF, who acted at the request of the president, who was absent.

\*\*\*\*\*

The following is a copy of a letter received from ARRL in response to an offer by Phil-Mont to sponsor an annual award for mobile activity during Field Day. (See the BLURB for April, 1964).

Mr. William F. Bubeck  
25 Hilltop Rd.,  
Norristown, Pa.

March 17, 1964

Dear Bill:

Your letter was much appreciated and we commend Philmont's idea most heartily. However, I'd like to explain further.

ARRL policy, due to the large number of classifications in the Field Day, gives no preference to one class of work over another. This, in addition to the emergency aspects of the test, makes it a League policy not to give or administer any FD awards. However, we feel very much that you and the club are to be congratulated on the idea of increasing interest in mobility and emergency work through an award.

Once the mobile aggregate scores are shown in the Field Day report, however, the Phil-Mont Mobile Radio Club can administer whatever trophy they wish.

Our best wishes to the group for their interest and activity in Class C,

73

Sincerely yours,

Ellen White, W1YYM  
Assistant Communications Mgr.

The club has decided to go ahead with plans to prepare and administer the award. Photographs of the award and all information pertaining to requirements for eligibility, actual presentation and other pertinent material will be presented to the ARRL for information and of course club members will be kept abreast of the developments.

\*\*\*\*\*

A note of thanks to Russ Hamilton, W3UVL, for the excellent job he did in photographing the Outstanding Member Award and providing prints for distribution to all the winners.

\*\*\*\*\*

## LET'S GET ACQUAINTED

There is one member of Phil-Mont who should be better known, but because he is satisfied to work unobtrusively for the club, seldom receives the recognition due him. His call - W3ADV, and of course the handle is Fred Shaw.

Fred graduated from West Philadelphia High School, but even before that event took place, he had acquired a ham license. This occurred in 1920 when Fred was only 13 years of age and he has held the same call since that date. While it would be incorrect to say that his license never expired, Fred's love of ham radio never did.

One of Fred's earliest transmitters was the popular Ford spark coil. (seems that Henry Ford should be credited with great contributions to amateur radio in those early days.) Early ambition led Fred to acquire a 2nd class commercial license at the age of 16 with hopes of becoming a maritime operator. Other events changed the course of destiny for him however, and Fred joined the forces of Bell Telephone about a year later. This was only the beginning and soon a YL named Emma joined with Fred in the joys and sorrows of matrimony. The passing years saw their union blessed with three children, Don, Carol and Kay, and today Fred and Emma enjoy the privileges of grandparents with eight grandchildren.

As time progressed Fred played an active part in the Haverford Township Emergency Radio Net; in fact, as Trustee for W3TKQ when it was first established at the Franklin Institute. Fred continues in this capacity today for Phil-Mont.

In addition to his activities with Phil-Mont and as President of the Haverford Township Emergency Radio Net, Fred finds time to play some golf and to be active on all the ham bands from 2 meters to 75 meters. His equipment consists of a combination of home brew and commercial gear. Fred is also active on Channel 1 with his mobile rig.

In January Fred completed 40 years with the Bell Telephone Company and that certainly makes him an old timer in the communication field.

de W3CDY

\* \* \* \* \*

## NEW PUBLICATION

"Transistor Transmitters for the Amateur" by Don Stoner, W6TNS, has been released by the Howard W. Sams Co.

Written for all amateurs, whether they want to build their own gear or just become familiar with transistor equipment theory. This book covers the theory, construction, and use of transistor oscillators, RF amplifiers, modulators and even simple antennas. Each construction project contains photographs, schematics, chassis layouts, tuning procedures and operation instructions.

Every piece of equipment described has been built and air tested by the author.

The publication is available from electronic parts distributors and book stores at a cost of \$2.95. Catalog number is TTS-1.

\* \* \* \* \*

## SPACE NOTES

As of March 1, 1964, 761 objects have been put into orbit (United States and others). At this time 231 of these objects are still in orbit.

\* \* \* \* \*

The USSR failed on March 4, 1964 in a 2nd attempt at a Venus probe. Reports say that the last 5 space vehicles attempted by the USSR have blown up on launching. They will probably attempt a third Venus probe before April 30.

\* \* \* \* \*

Astronomers have theorized the existence of neutron stars which, although only five to ten miles in diameter, have a mass equal to the Sun. In terms we can more easily understand, this means that these stars have a density of 10 to 100 billion tons per cubic inch. The core temperatures may run as high as several billion degrees centigrade, while the surface temperature would be a mere 10 degrees.

(Naval Research Reviews)

\* \* \* \* \*

As of March 1, 1964 there are fifteen United States satellites that are still transmitting. Vanguard 1, launched March, 1958 is still transmitting on 108.012 mc.

Transit 7 is transmitting on four frequencies: 54 mc; 162 mc; 324 mc and 648 mc. Explorer 18 with a maximum orbit of 121,000 miles, is transmitting on 136.110 mc.

World-wide communications frequencies used for satellites at the present are as follows:

satellite to earth- 3400-4200 mc; 4400-4700 mc; 7250-7300 mc.  
earth to satellite- 5725-5850 mc; 5925-6425 mc; 7900-7925 mc;  
7925-8025 mc; 8025-8400 mc.

\* \* \* \* \*

## IMPROVE YOUR ANTENNA LOCATION

The Superintendent of Documents, Government Printing Office, Washington, D.C., 20402, offers the following publication which may be of interest: "Curves of Input Impedance Change Due to Ground for Dipole Antennas" This publication presents graphs of the change in input impedance of electrically short dipole antennas in the presence of an isotropic and homogeneous ground, considering four types of antennas; horizontal and vertical, electric and magnetic dipoles. Curves of the change in both the input resistance and reactance are shown for a wide range of values of the frequency antenna height above the ground, and electro-magnetic ground constants. Contains 47 pages, illustrated. Cost 35¢. Catalog number c 13.44:72.

\* \* \* \* \*

## OSCAR III

The third Orbiting Satellite for Communications by Amateur Radio is being readied for a late summer or early fall launch date. Oscar III will be a two meter repeater satellite and will measure about 6 1/2 x 12 x 17 inches weighing approximately 25 pounds.

\* \* \* \* \*



# 10-4 Y'ALL

The following list of Ten Signals is published without comment at the request of numerous club members. Bear in mind that 10 codes are many and differ in the various services - this is one of several.

10-1	Receiving poorly	10-19	Return to station
10-2	Receiving well	10-20	What is your location
10-4	O.K.	10-21	Call this station by telephone
10-5	Relay	10-22	Disregard last call
10-6	Busy	10-36	Correct time
10-7	Out of service	10-89	Radio service needed
10-9	Repeat	10-97	Need radio report
10-13	Weather	10-99	Sigs weak-change location

de W3QQH

\* \* \* \* \*

## CHANNEL CHATTER

W3 CHZ and K3AWC complaining about the lack of activity on the Orange Juice Net---W3BSC working all bands except ten meters---W3BS doing lots on 6 and 2 meters---W3CDY trying to find time to put himself on 6 meter FM---W3ZPP Cadillac stuck so deep in mud that even a tractor couldn't pull it out---W3DJV active on 6 meter AM mobile, now frequenting 29493 again---W3DJW and K3HWX heard aero-mobile Sundays-even Chief Snooper, K3HIE couldn't get a fix on that transmitter---W3EQV and family possibly changing QTH to W6 land-we'll have to wait for the skip to come back to hear Ed and the gang---W3FLP now a nighttime operator at W3BAH---W3FIL let W3FWI out of the bag to attend the April meeting-will wonders reverse!---W3FOG showed up too!---W3FWW lost to 50 mc and 950 kc---K3GRA is reconstructing his big vertical-losing a few feet, but no "S" units---K3GMM/m and WA2RDC/m operating sub-maritime mobile in the Lincoln Tunnel---W3HFX advocates 2 and 6 meter SSB for very comfortable local work---Hal is also active on two-way 420 mc SSB---W3GOW and K3HIJ have given up smoking (their own) cigarettes-Ohpees are welcome however!---W3JIL is Porche mobile again---W3JGB up in the air quite often, but still managing to find time to remain active on the Orange Juice Net---W3JYA monitoring CH 1 at work---Non-member Bill Winter, K3JPB, contributing heavily toward W3TKQ improvements. Transistors, diodes, etc.---Suggestion to W3Lem-tune up your rig, Ed, so you will be audible on the South End---W3MHR working lots of CW, preparatory to taking the Extra Class exam---K3NYN coming into the April meeting late leading K3QGY, PGB, MBD and WA3ABC after chow at Pub-Tiki---K3OEJ trying to get on 2 meters, having trouble getting a power transformer---W3PNG also going on 2 meters with a Heathkit Lunchbox---W3PKY audible, in the noise, from his new QTH---W3PST has a new assistant who is not a ham---W3RQZ conspicuous by its absence these days---W3QZO, in his new QTH, goes QRT. Wassa matter Sambob?---W3QV heard discussing old age with W3CHZ-can you imagine that?---W3SMA being heard on W3DJW's tugboat receiver---W3SRU still plugging up to North Wales---W3UQV taking to traffic handling---Joe made the Brass Pounder's League in February---W3NIP is mobile again---W3UMK becoming increasingly rare these days---W3YJM monitoring Montgomery County Radio at home these days-another QQH in the making?---K3SZJ, OEJ and WN2GBJ still trying to get their code speed up to 13 wpm---K3KDP will graduate from the U of P in June. His XYL WA3AAZ heard often on Ch 1---W3IWO, long known as wet noodle, becoming interested in ham radio again. (This is the first effort of the new CC editors, K3HWX and W3DJW, a very fine start, and a very great assist. Thanx and keep it up. Ed)

\* \* \* \* \*

# PHILMONT "BLOSSOMS" IN THE SPRING!



A TRAILER GROWS



THE "PRESS" NEEDS HELP



A TELEPHONE HOOKUP?



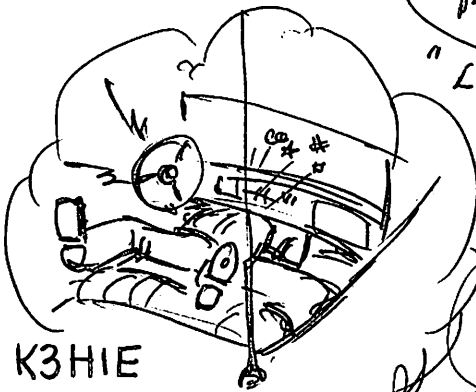
LOOSE ANTENNA



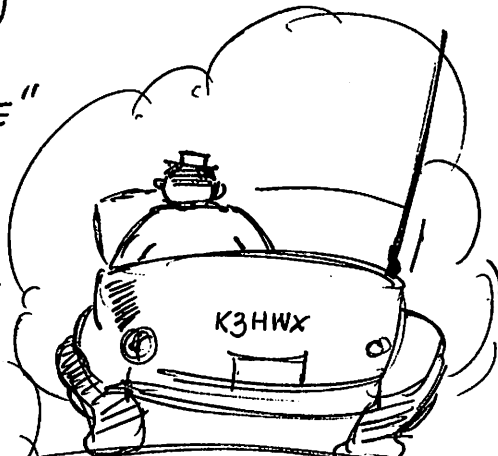
"LOST TREASURE"



POTENTIAL "PULITZER"?



MOBILE REPAIRS



UNDER STRESS!

# SWAP AND SHOP

For sale: Collins KWM-2 with AC power supply.

\$850.00

Contact Hy Hecht, W3WNC

\*\*\*\*\*

For sale: Johnson Ranger II, 4 months old, arranged for PTT. Complete with Astatic GD-104 mike w/Belden coiled cord. Also has all new Rogan Brothers special knobs (or original knobs, if desired)

\$290.00

Gonset VHF linear amplifier (6 meters). Perfect condition, used only about three hours total time. Complete with manual.

\$110.00

Multi-Elmac model AF-67. The unit currently in use by W3JYA. Perfect condition with new new 5881 modulators and 6146B final amplifier. Complete with Astatic 10M5 carbon mike and manual. An exceptionally reliable rig.

\$115.00

Triumph model 830 oscilloscope. In excellent condition and suitable for general purpose bench use. Complete with manual.

\$ 40.00

Contact Jim Hartmann, W3JYA  
1338 Virginia Ave.  
Havertown, Pa. 19083

\*\*\*\*\*

For sale: Heathkit Walkie-talkie, Model GW-31. Complete with manual, xtal for CH 1 and leather case.

\$ 20.00

Hammerlund series 200 Super Pro Receiver. 540 kc to 20 mc, complete with manual and P/S

\$100.00

Viking tape deck, Model 75. Complete with manuals and PB60 playback preamplifier.

\$ 50.00

10 meter RF deck. 6AG7, 6V6, 807, in 3 1/2" rack mount.

\$ 10.00

Contact Jim Spencer, W3QQH  
Phone TU-4-8469

\*\*\*\*\*

For sale: Complete color TV chassis, wired by RCA. With most tubes. Missing: Color pix tube (21CPY22A), Yoke assembly, convergence board. All schematics supplied. Missing parts list available.

\$ 40.00

Contact K3PHC

\*\*\*\*\*

SWAP AND SHOP (continued)

For sale: Johnson "Bug"	\$ 10.00
Gonset Modulation Indicator	\$ 4.00
NC300 converters for 2 and 6 meters, with manual.	\$ 50.00
Johnson 6N2 transmitter w/2 meter VFO. Factory wired, complete with manual.	\$ 90.00
Astatic D-104 microphone	\$ 10.00

Contact Ed McVaugh, W3LEM  
Phone OL-9-5237

\*\*\*\*\*

For sale: Multi-Elmac AF67 Transmitter.	\$ 49.00
AC power supply for above transmitter	\$ 12.50
600 Watt Final Amplifier. Push-pull VT-127A.	\$ 14.00
Power supply for 600 Watt Final.	\$ 33.00
General Radio 100-Q Variac, in cabinet	\$ 17.00

Contact Karl Krech, W3BS  
Phone SU-9-3941

\*\*\*\*\*

For sale: Super-Pro Hammerlund receiver w/power supply.	make offer
Wanted: MD-7 surplus plate modulator	
Back issues of 73 magazine	
Information on Gonset Tri-band converter.	

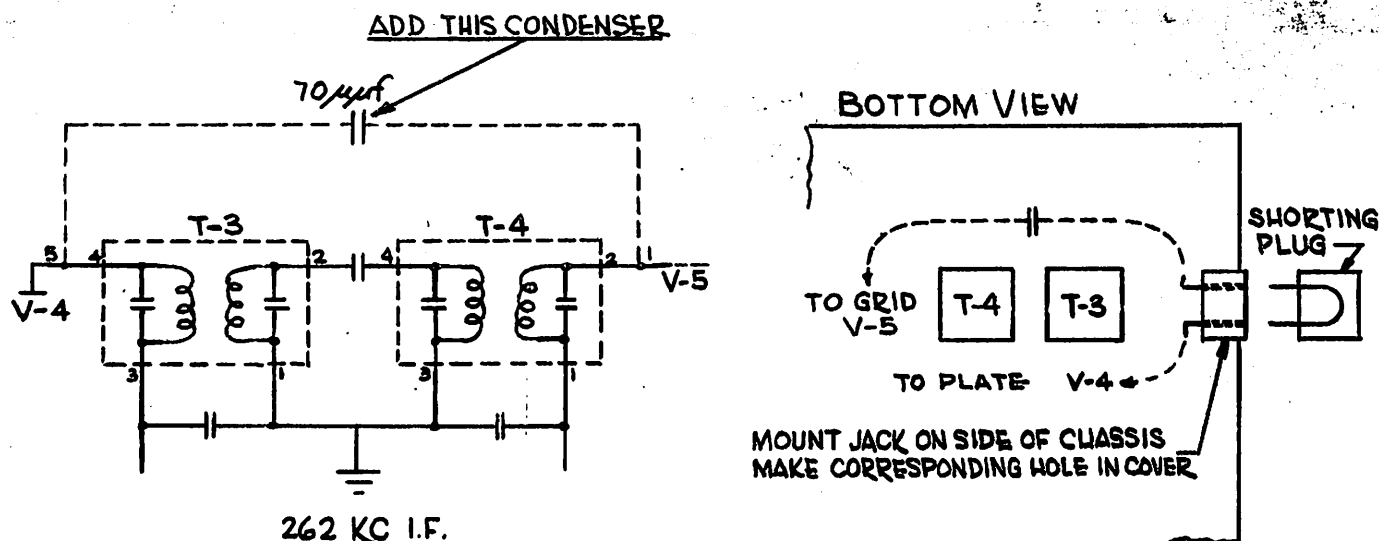
Contact Murry Bevitz, K3SP3  
7528 Brockton Road  
Phila., Pa. 19151  
Phone: TR-8-3074

\*\*\*\*\*

# PHILMONT TEK-NI-GRAM

MAY 1964

MODIFICATION TO BROADEN RESPONSE OF ELMAC PMR-8 RCVR.  
CONTRIBUTED BY FRED SHAW W3ADV



DEAR "ED":

WHEN I FIRST BOUGHT MY ELMAC I WAS VERY HAPPY TO FIND THAT I HAD SUCH A FINE, SENSITIVE MOBILE RECEIVER. BUT I SOON FOUND THAT IT WAS MUCH TOO SHARP FOR OPERATION ON THE PHILMONT FREQUENCY. YET I DID NOT WANT TO TAKE AWAY ANY SHARPNESS ON THE LOWER FREQUENCY BANDS WHERE IT IS NEEDED. THEREFORE, I MADE THIS MODIFICATION SO THAT I COULD HAVE MY CAKE AND EAT IT TOO! HI! ON PHILMONT I USE THE SHORTING PLUG AND I REMOVE IT WHEN I WANT THE ORIGINAL SHARPNESS. DO NOT RETUNE TRANSFORMERS T3 AND T4. THE SHARPNESS OF THE RECEIVER WILL BE LESSENER JUST ENOUGH FOR COMFORTABLE NET OPERATION.

THIS MODIFICATION SHOULD FUNCTION JUST AS WELL ON THE PMR-7, WHICH I THINK IS A SIMILAR RECEIVER.

BEST 73's,  
FRED, W3ADV

## EDITOR'S NOTE -

WE HAVE BEEN ADVISED THAT IN DWG. NO. 1 OF THE APRIL TEK-NI-GRAM THE 42" FIGURE SHOULD HAVE BEEN FOR THE CIRCUMFERENCE RATHER THAN DIAMETER OF THE LOOP.

THIS ONLY PROVES HOW ACCURATELY WE PLAGIARIZE - WE EVEN STEAL ERRORS.

PHIL-MONT MOBILE RADIO CLUB INC.



*The "Blurb"*

A PHIL-MONT MOBILE RADIO  
CLUB PUBLICATION

10 No. YORK RD. WILLOW GROVE PA.

1155  
775  
380

C. R. Spencer Jr. W3COH  
124 Central Ave,  
North Hills, Pa. 19038  
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